



METHOD FOR MANUFACTURING HIGHLY-CRYSTALLIZED
DOUBLE OXIDE POWDER

ABSTRACT OF THE DISCLOSURE

A method for manufacturing a highly-crystallized double oxide powder composed of a single crystal phase which can be used as a phosphor material, a dielectric material, a magnetic material, etc. The method involves by forming fine droplets of a raw material solution containing a raw material compound that includes at least one metal element and/or at least one semi-metal element that constitutes a double oxide, and heating these droplets at a high temperature, wherein the raw material solution is a solution which exhibits only one main peak attributable to the decomposition reaction of the raw material compound or a reaction intermediate thereof in a DTA profile when the solution is dried and solidified and subjected to TG-DTA measurement. The method provides a highly-crystallized double oxide powder which is free from inclusion of impurities, has a high dispersibility and a uniform particle size, and composed of a single crystal phase, by a simple procedure at low cost.